IIT Madras is interested in purchasing a **speed gun** for data collection in the Transportation Engineering Division of IIT Madras with the following specifications:

* Speed Range to be measured 1- 200 kmph
* Speed Accuracy +/- 1 kmph
* Resolution 0.1 kmph
* Acquisition Time - 0.3 Seconds
* Should identify from a distance of 20-1000m
* Point-and-shoot for manual data collection
* Display targeting using cross hair
* Lock in target and display
* Locked vehicle speeds should be displayed
* Large, clear LCD display
* Switchable for approaching, receding or bi-directional use
* Storage facility of minimum 8MB
* Display fastest speed once trigger is released
* Should work in automated mode
* Compatible to tripods
* Provision to set speed limit
* Automatically identify violations beyond set speed limits
* Trigger camera for speed limit violations
* Store violation details - picture showing license plate number, time, speed and location
* Provision to print the above details
* GPS details of the violation point
* Proof as picture with license number, location and speed along with flexibility to record video up to 2 minutes
* Lightweight and portable
* Low power requirement
* Should be able to be powered from the vehicle cigarette lighter
* Rechargeable battery pack
* Shower and dust proof
* Tripod for field installation
* Data transfer to computer
* Communicate the data in real time to selected server, with the use of proper modem

**Your compliance report on the above should be attached along with the technical offer.**